

**ENGINEERING/OPERATIONS COMMITTEE MEETING RECAP
SEPTEMBER 13, 2011**

COMMITTEE MEMBERS PRESENT

Ed Mandich, Committee Chair
Jim Haselton, Committee Member Alternate

STAFF PRESENT

Don Chadd, General Manager
Teresa Teichman, Secretary to the Board of Directors
Michael Perea, Special Projects Manager
Kris Hanberg, Wastewater Supervisor
Bob Beck, Maintenance Supervisor

PUBLIC PRESENT

No members of the public were present.

CALL THE MEETING TO ORDER

Committee Chair Mandich called the Engineering/Operational Committee Meeting to order at 7:07 a.m.

VISITOR PARTICIPATION

There was no visitor participation

ORAL COMMUNICATION

There were no comments.

COMMITTEE MEMBER COMMENTS

There were no director comments

REPORT FROM THE GENERAL MANAGER

Mr. Don Chadd, General Manager, advised he has no information that is not covered on the agenda.

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PROJECT MANAGEMENT

**ITEM NO. 1A) STATUS REPORT AND POSSIBLE ACTION RELATING TO
STORM DAMAGE**

Mr. Hector Ruiz, District Engineer, advised that FEMA requires the WSP-2 8-inch Creek Crossing Repair to have environmental permits. Mr. Ruiz stated the requests for permits and accompanying documentation have been sent out to the issuing agencies. Mr. Ruiz stated he anticipates about one month to receive a response from Fish and Game and the San Diego Regional Water Quality Control Board.

Mr. Ruiz advised the formal appeal letter to FEMA, relating to WSP-6, the Serrano Creek Crossing Project denial, has been sent and FEMA has a sixty day response timeline. Mr. Ruiz stated while the review process is taking place, he will be working on securing Requests for Proposal (RFP's) as it relates to design and possible alternate routes for rerouting of the 16-inch line.

Mr. Ed Mandich, Committee Chair, clarified these RFP's will be sent out to multiple consultants and not limited to PSOMAS. Mr. Ruiz confirmed he will solicit from multiple consultants.

The Engineering/Operational Committee received the status update. Forward to the Board (Action Calendar).

**ITEM NO. 1B) STATUS UPDATE RELATING TO BAKER WATER
TREATMENT PLANT**

Mr. Ruiz advised the design firm for the Baker Water Treatment Plant (BWTP) is currently working on completing the 100 percent design proposal which includes Variance 4 scope of work and is projected to be complete in January or February 2012. Mr. Ruiz recommends waiting until April or May of 2012 to hold a Special Board Workshop as project bids are anticipated to be received by that time and the Board can review all materials to make an informed decision relating to proceeding with the project.

Mr. Ruiz advised that he and staff from TCWD's water department met with staff from IRWD to discuss operations and water supplied by the new TCWD raw water pump station to the Dimension Water Treatment Plant. Mr. Ruiz stated it tentatively appears TCWD will be lead on operations of the new raw water pump station and IRWD will be lead on maintenance.

The Engineering/Operational Committee received and filed the status update.

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ITEM NO. 1C) STAFF REPORT RELATING TO SOLAR POWER FEASIBILITY ANALYSIS

Mr. Ruiz advised a complimentary Solar Power Feasibility Analysis (SPFA) was conducted and has been completed. The SPFA was conducted by Clean and Co., a local company, with assistance from Schneider Electric, a large national company. Mr. Ruiz stated the SPFA was conducted to determine the feasibility of installing a solar power system to offset electrical demands at the Dimension Water Treatment Plant and the Robinson Ranch Wastewater Treatment Plant.

Discussion occurred related to the findings and Mr. Ruiz concluded that the pay back on this potential project would not be realized within a 25 year period and would not be a benefit to the District at this time, in particular because of the District's low cost of power. Mr. Ruiz stated if the cost of power increases by about 50 percent within the next several years, it may be beneficial to review the feasibility of a solar system again.

The Engineering/Operational Committee received the staff report. No action necessary.

ITEM NO. 1D) DISCUSSION AND POSSIBLE ACTION RELATING TO ENCROACHMENT ONTO TRABUCO CANYON WATER DISTRICT'S EASEMENTS RELATING TO VERIZON WIRELESS SITE – PLANO TRABUCO

Mr. Ruiz advised the District received a request from Verizon Wireless for consent of encroachment on TCWD's water and sewer easements located adjacent to the Santa Margarita Water District's (SMWD) reservoir, within the community of Rancho Cielo.

Mr. Ruiz provided a general aerial layout of the proposed encroachment. Mr. Ruiz advised Verizon Wireless still has additional easements to secure from other entities. Mr. Ruiz advised that TCWD's Legal Counsel has reviewed the information and modifications to the encroachment are being incorporated to protect the District's interest.

The Engineering/Operational Committee received the staff report. No action necessary.

ITEM NO. 1E) STATUS UPDATES RELATING TO ON-GOING ENGINEERING PROJECTS

1. Golf Club Lift Station Upgrades/Rehabilitation

Mr. Ruiz advised there is no new information to report on this project.

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2. Shadow Rock Detention Basin Facility Project

Mr. Ruiz advised he has received informal notice that Proposition 84 Grant Projects are being reviewed at this time.

3. Brookseed/Dove Inter-tie

Mr. Ruiz advised PSOMAS is completing the design on this project. Mr. Ruiz stated the goal is to have this project go out for bid and provide information at the time of the Regular Board meeting in October, in order to award the contract.

4. Trabuco Highlands Reservoir Pressure Zone

Mr. Ruiz advised PSOMAS is completing the design on this project. Mr. Ruiz stated the goal is to have this project go out for bid and provide information at the time of the Regular Board meeting in October, in order to award the contract.

5. Reservoir Analysis

Mr. Ruiz advised he and Mr. Chadd met with PSOMAS last week relating to performing a hydraulic analysis to evaluate the need for additional reservoir(s) within the District. Mr. Ruiz advised PSOMAS would utilize the District's existing hydraulic computer model. PSOMAS has been requested to provide a proposal to the district addressing current and projected storage needs, size, location, and number of reservoirs recommended for delivery and storage of potable water.

Mr. Mandich asked if there were a line break, or unauthorized use of a hydrant, along the proposed Brookseed/Dove Inter-tie, would TCWD be alerted. Mr. Ruiz responded that a significant line break would be noted by a drop in level at the Trabuco Tanks. The tank levels of which are monitored by the alarms from the SCADA system. Discussion occurred relating to previous water thefts from hydrants.

6. Other Projects

Mr. Ruiz advised there are no other projects to discuss.

The Engineering/Operational Committee received the status updates. No action necessary.

ITEM 1F) STATUS UPDATES REGARDING ACTIVE DEVELOPMENTS

1. Skyridge – Standard Pacific Homes (85 DUs)

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Mr. Ruiz advised that he is currently reviewing the rough draft Sub-Area Master Plan (SAMP) submitted by PSOMAS.

2. Oaks at Trabuco

Mr. Ruiz advised there is not much activity occurring on this project. Mr. Ruiz stated the one completed house has a new occupant. Mr. Ruiz stated he met with the new owner relating to a possible leak on the property. Mr. Ruiz advised minimal indication of a leak was found. Mr. Kris Hanberg, Wastewater Supervisor, advised there appears to be normal usage during this time as it relates to sewage hauling services.

3. Fieldstone

Mr. Ruiz advised the water and sewer inter-tie connections are in place for this development. Mr. Ruiz is in contact with the Developer and will be coordinating the inspection of the water and sewer infrastructure.

4. Saddle Crest

Mr. Ruiz advised this project is at the Environmental Impact Review stage of the development process. Mr. Ruiz stated he is preparing the developer letter to send out next week and PSOMAS is preparing a proposal for developing a SAMP. Mr. Ruiz anticipates bringing information to the Engineering Committee and Board meeting during November, 2011 or earlier.

5. Other Active Developments

Mr. Ruiz advised he is working on a small one Equivalent Dwelling Unit home located on Hunky Dory Road. Mr. Ruiz advised he will have the Will-Serve letter ready for Board approval next month.

The Engineering/Operational Committee received the status update. No Action Necessary.

ITEM NO. 1G) WATER SYSTEM STATUS UPDATE

Mr. Chad provided the August 2011 update in Mr. McKenna, Water Treatment Supervisor's absence.

Source Water Production

1. The water treatment plant production totaled 204 acre feet.

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2. The Trabuco Creek Water Treatment Facility produced 52 acre feet.
3. The average daily demand was 9.1 acre feet, or 4.6 cfs.
4. The demand for the District was 282 acre feet of which the Trabuco Creek Wells Facility provided 18%.

Mr. Chadd reported the pumps at the Wells Facility have been turned off for the season. Mr. Chadd stated the customer demand for this year has not penetrated 5 cubic feet per second (cfs) for any sustained period of time and is unusually low. Mr. Chadd attributes the decline in TCWD water sales to; customer conservation efforts, the effect of tiered rate billing, and the economy in general.

Discussion occurred relating to water transmission repairs. Mr. Chadd stated his management philosophy is to bring in the professional pipeline repair companies for repairs so that TCWD staff may be available to manage and maintain the distribution system in operation during the emergency.

Projects and Repairs

1. Water Department personnel assisted in the repair of a line break which occurred on the 10-inch transmission main on Live Oak Canyon Road.
2. Water Department personnel assisted in the repair of a line break which occurred on the 16-inch transmission main on the El Toro Road Bike Trail.

Discussion occurred related to the level of water in the wells.

The Engineering/Operational Committee received the status update. No action required.

ITEM NO. 1H) WASTEWATER SYSTEM STATUS UPDATE

Mr. Kris Hanberg, Wastewater Operator provided the August 2011 status update.

Robinson Ranch Wastewater Treatment Plant

1. The reclaimed water production totaled 62.0 acre feet.
2. The recycled water demand was 96.73 acre feet.
3. Dove Lake had 12.4 feet of freeboard.

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4. The reclaimed water reservoir had 4.5 feet of freeboard.
5. The District pumped a total of 33.9 acre feet from Dove Lake.
6. The Dry Season Water Recovery Project produced 12.14 acre feet.
7. There was no water pumped to the SMWD's Portola Basin.

Projects

1. Wastewater Personnel began sewer line cleaning.
2. Wastewater Personnel extended the boat ramp into Dove Lake.

Mr. Hanberg discussed the current water level in Dove Lake.

The Engineering/Operational Committee received the status update. No action taken.

ITEM NO. 1I) AUGUST 2011 OPERATIONAL REPORT REVIEW

The Committee reviewed the information provided.

The Engineering/Operational Committee received and filed the report. No action taken.

**ITEM NO. 1J) ENGINEERING/OPERATIONAL COMMITTEE MEETING
RECAP**

No changes were made to the Engineering/Operational recap.

The Engineering/Operational Committee recommended that the Board receive and file the August 9, 2011 Engineering/Operational Committee Meeting Recap. (Consent Calendar).

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**ITEM NO. 1K) DISCUSSION AND POSSIBLE ACTION REGARDING THE FINES
IMPOSED BY THE SAN DIEGO REGIONAL WATER QUALITY
CONTROL BOARD ON THE SANTA MARGARITA WATER
DISTRICT RELATING TO THE 2010 SEWAGE SPILL**

Mr. Ruiz advised the hearing to decide this matter has been postponed three times and is currently scheduled to be heard on September 14, 2011. Mr. Ruiz advised Mr. Ferons will provide a report delineating TCWD's share of costs. Mr. Ruiz stated Mr. Ferons is aware of TCWD's reduced flow, due to diversion, during the time of the sewage spill. Mr. Ruiz stated the original fine of 1.7 million dollars has been reduced to \$890,000 and TCWD's anticipated share is in the \$60,000 range. Mr. Ruiz hopes to have more information next month to bring to the Committee.

Recommended Action: The Committee received the information. No action required.

ITEM NO. 1L) OTHER MATTERS/REPORTS

Mr. Chadd advised one of TCWD's water operators recently took a position with IRWD. Mr. Chadd stated he does not plan to backfill the position. Mr. Chadd reviewed the accomplishments of this employee and recommended recognizing this individual at the time of the September 21, 2011 Board meeting.

Mr. Chadd advised he has scheduled a meeting with the El Toro Water District (ETWD) relating to the Baker Water Treatment Plant. Mr. Chadd advised there is potential for ETWD to purchase TCWD's extra water allotment

Mr. Chadd relayed information that two groups have contacted the District with interest in scheduling tours of TCWD facilities. Mr. Chadd is having Mr. Michael Perea, Special Projects Manager, contact the interested parties to arrange.

ADJOURNMENT

Committee Chair Mandich adjourned the September 13, 2011 Engineering/Operational Committee Meeting at 7:42 a.m.